

LC 300 HPLC and UHPLC Systems

For laboratories focused on achieving high levels of efficiency, without compromise on productivity, the PerkinElmer LC 300 HPLC and UHPLC System offers flexibility, performance and efficiency even for the most challenging analytical demands. With fully customizable configurations and accessories, each LC 300 HPLC and UHPLC System is intuitive and designed to meet high-throughput laboratory requirements, with no additional burden on the staff. PerkinElmer SimplicityChrom[™] CDS Software manages the complete workflow and with the LC 300 HPLC and UHPLC System delivers an innovative user experience with intuitive functions, automated processes.





SPECIFICATIONS

LC 300 Analytical Pump

KEY DESIGN COMPONENTS	
Technology	 Unidirectional Pumping Technology Reversed phase, Normal Phase, IEX, SEC (GPC/GFC) solvent compatibility Fully automatic and continuous compressibility compensation Integrated 4-solvent degassing
Solvent Selection	4 solvents (A,B,C,D) supported with quaternary solvent blending
Safety Features	Adjustable maximum and minimum pressure limits
U.S. Patent No. 4,643,649	

OPERATING SPECIFICATIONS	
Pressure Range	0 – 6,100 psi / 0 – 420 bar for the entire flow-rate range
Flow Range	0.01 to 10.0 mL/min
Flow Rate Increments	0.01 from 0 to 0.99 mL/min 0.1 from 1.0 to 10 mL/min
Flow Precision	0.3% RSD (typical 0.1%) at 1 mL/min and 1000 psi with water
Flow Accuracy	± 1% of setting at 1 mL/min and 1000 psi with water
Retention Time Reproducibility	<0.3% RSD (typically <0.1%)
Compositional Range	0 - 100 %, solvents A,B,C,D
Solvent Blending Increments	Settable to 0.1% increments
Composition Accuracy	Typically 0.5% from 3 to 97% up to 5 mL/min
Composition Precision	Typically <0.2% variation
Gradient Delay Volume	700 µL
Gradient Profiles	Linear, exponential 1 to 9.9 (positive and negative), or step (89 profile selections (linear, step, concave and convex: 1 to 9.9 positive and negative))

POWER REQUIREMENTS	
Voltage Requirements	100 – 240 V
Line Frequency	50 – 60 Hz
Power Consumption	129 VA

PHYSICAL AND ENVIRONMENTAL	
pH Range	All wetted materials are suitable for pH range 1.0 - 14.0
Dimensions	56 cm L x 34.5 cm W x 16.8 cm H / 22 in L x 13.5 in W x 6.6 in H
Weight	20 kg / 44 lb
Operating Humidity	20 - 80% non-condensing
Operating Temperature	15 - 10 °C

LC 300 (Binary) HPLC Pump

KEY DESIGN COMPONENTS	
Technology	 High pressure dual series piston pump with individually driven pistons Patent pending pump head design Automated self-priming with integrated prime pump and auto purge valve Fully automatic and continuous compressibility compensation Dedicated piston seal wash pump with selectable seal wash speeds Integrated solvent degassing
Solvent Selection	4 solvents available with binary solvent delivery (A1/A2 and B1/B2)
Safety Features	Adjustable maximum and minimum pressure limitsSolvent leak detection with automatic pump shutdown

OPERATING SPECIFICATIONS	
Pressure Range	0 - 10,000 psi / 0 - 690 bar
Pressure Ripple	< 1 % of system pressure or < 72 psi (5 bar), whichever is greater
Flow Range	1 - 3,000 µL/min
Flow Rate Increments	1.0 µL/min increments
Flow Precision	\leq 0.075 % RSD or 0.005 minutes SD, whichever is greater*
Flow Accuracy	±1 % or $\pm10\mu\text{L/min},$ whichever is greater*
Compositional Range	0 - 100 %
Composition Accuracy	± 0.5 % absolute from 5 - 95 %**
Composition Precision	\leq 0.15 % RSD or 0.021 minute SD, whichever is greater*
Gradient Delay Volume	115 μL (w/ 100 μL mixer)
Gradient Profiles	Linear, concave (4) and convex (4)

POWER REQUIREMENTS	
Voltage Requirements	100 – 230 V
Line Frequency	50 – 60 Hz
Power Consumption	450 VA

PHYSICAL AND ENVIRONMENTAL	
pH Range	All wetted materials are suitable for pH range 1.0 - 10.0
Dimensions	56 cm L x 34.5 cm W x 16.8 cm H / 22 in L x 13.5 in W x 6.6 in H
Weight	21 kg / 46 lb
Operating Humidity	20 - 80% non-condensing
Operating Temperature	10 - 40 °C

LC 300 Quaternary HPLC Pump

KEY DESIGN COMPONENTS	
Technology	 High pressure dual series piston pump with individually driven pistons Patent pending pump head design Automated self-priming with integrated prime pump and auto purge valve Fully automatic and continuous compressibility compensation Dedicated piston seal wash pump with selectable seal wash speeds Integrated solvent degassing
Solvent Selection	4 solvents (A,B,C,D) supported with quaternary solvent blending
Safety Features	 Adjustable maximum and minimum pressure limits Solvent leak detection with automatic pump shutdown

0 - 10,000 psi / 0 - 690 bar
< 1 % of system pressure or < 72 psi (5 bar), whichever is greater
1 - 2,000 µL/min
1.0 µL/min increments
\leq 0.075 % RSD or 0.005 minutes SD, whichever is greater*
±1 % or $\pm10\mu\text{L/min},$ whichever is greater*
0 - 100 %
± 0.5 % absolute from 5 - 95 %**
\leq 0.15 % RSD or 0.021 minute SD, whichever is greater*
< 700 µL (w/ 150 µL mixer)
Linear, concave (4) and convex (4)

POWER REQUIREMENTS	
Voltage Requirements	100 – 230 V
Line Frequency	50 – 60 Hz
Power Consumption	450 VA

PHYSICAL AND ENVIRONMENTAL	
pH Range	All wetted materials are suitable for pH range 1.0 - 10.0
Dimensions	56 cm L x 34.5 cm W x 16.8 cm H / 22 in L x 13.5 in W x 6.6 in H
Weight	21 kg / 46 lb
Operating Humidity	20 - 80% non-condensing
Operating Temperature	10 - 40 °C

LC 300 (Binary) UHPLC Pump

KEY DESIGN COMPONENTS	
Technology	 High pressure dual series piston pump with individually driven pistons Patent pending pump head design Automated self-priming with integrated prime pump and auto purge valve Fully automatic and continuous compressibility compensation Dedicated piston seal wash pump with selectable seal wash speeds Integrated solvent degassing
Solvent Selection	4 solvents available with binary solvent delivery (A1/A2 and B1/B2)
Safety Features	Adjustable maximum and minimum pressure limitsSolvent leak detection with automatic pump shutdown

OPERATING SPECIFICATIONS	
Pressure Range	0 - 18,000 psi / 0 - 1240 bar
Pressure Ripple	< 1 % of system pressure or < 72 psi (5 bar), whichever is greater
Flow Range	1 - 2,000 µL/min
Flow Rate Increments	1.0 µL/min increments
Flow Precision	\leq 0.075 % RSD or 0.005 minutes SD, whichever is greater*
Flow Accuracy	±1 % or $\pm10\mu\text{L/min},$ whichever is greater*
Compositional Range	0 - 100 %
Composition Accuracy	± 0.5 % absolute from 5 - 95 %**
Composition Precision	\leq 0.15 % RSD or 0.021 minute SD, whichever is greater*
Gradient Delay Volume	50 μL (w/ 35 μL mixer)
Gradient Profiles	Linear, concave (4) and convex (4)

POWER REQUIREMENTS	
Voltage Requirements	100 – 230 V
Line Frequency	50 – 60 Hz
Power Consumption	450 VA

PHYSICAL AND ENVIRONMENTAL	
pH Range	All wetted materials are suitable for pH range 1.0 - 10.0
Dimensions	56 cm L x 34.5 cm W x 16.8 cm H / 22 in L x 13.5 in W x 6.6 in H
Weight	21 kg / 46 lb
Operating Humidity	20 - 80% non-condensing
Operating Temperature	10 - 40 °C

LC 300 Quaternary UHPLC Pump

KEY DESIGN COMPONENTS	
Technology	 High pressure dual series piston pump with individually driven pistons Patent pending pump head design Automated self-priming with integrated prime pump and auto purge valve Fully automatic and continuous compressibility compensation Dedicated piston seal wash pump with selectable seal wash speeds Integrated solvent degassing
Solvent Selection	4 solvents (A,B,C,D) supported with quaternary solvent blending
Safety Features	Adjustable maximum and minimum pressure limitsSolvent leak detection with automatic pump shutdown

OPERATING SPECIFICATIONS	
Pressure Range	0 - 18,000 psi / 0 - 1240 bar
Pressure Ripple	< 1 % of system pressure or < 72 psi (5 bar), whichever is greater
Flow Range	1 - 2,000 µL/min
Flow Rate Increments	1.0 µL/min increments
Flow Precision	\leq 0.075 % RSD or 0.005 minutes SD, whichever is greater*
Flow Accuracy	±1 % or $\pm10\mu\text{L/min},$ whichever is greater*
Compositional Range	0 - 100 %
Composition Accuracy	± 0.5 % absolute from 5 - 95 %**
Composition Precision	\leq 0.15 % RSD or 0.021 minute SD, whichever is greater*
Gradient Delay Volume	<700 μL (w/ 150 μL mixer)
Gradient Profiles	Linear, concave (4) and convex (4)

POWER REQUIREMENTS	
Voltage Requirements	100 – 230 V
Line Frequency	50 – 60 Hz
Power Consumption	450 VA

PHYSICAL AND ENVIRONMENTAL	
pH Range	All wetted materials are suitable for pH range 1.0 - 10.0
Dimensions	56 cm L x 34.5 cm W x 16.8 cm H / 22 in L x 13.5 in W x 6.6 in H
Weight	21 kg / 46 lb
Operating Humidity	20 - 80% non-condensing
Operating Temperature	10 - 40 °C

LC 300 HPLC Autosampler

KEY DESIGN COMPONENTS	
Technology	 System status display
	 Built-in oven with integrated preheater
	 Patented ILD[™] injection valve¹
	 Automated dilution and derivatization capabilities
	 Support for multiple sample vial and tray formats
Safety Features	Door interlock sensor

¹ U.S. Patent No. 8,322,197 B2, European Patent No. 2196801

OPERATING SPECIFICATIONS	
Maximum Operating Pressure	0 - 10,000 psi / 0 - 690 bar
Injection Modes	Full-loop, partial loop-fill, µL pickup
Injection Volume	Programmable from 1 – 2,500 μ L in 1 μ L increments
Injection Precision	Full-loop injection \leq 0.3 % RSD; Partial loop-fill \leq 0.5 % RSD; µL pickup \leq 1.0 % RSD
Injection Cycle Time	< 20 seconds typical in partial loop mode
Carryover	≤ 0.005%
Sample Temperature Control	4 - 40 °C (with Peltier)
Integrated Column Oven	Temperature range: Ambient+5 to 60 °C; Accuracy: ±1 °C
	Maximum column length: 150 mm

POWER REQUIREMENTS	
Voltage Requirements	100 – 240 V
Line Frequency	50 – 60 Hz
Power Consumption	320 VA

PHYSICAL AND ENVIRONMENTAL	
Dimensions	56 cm L x 34.5 cm W x 34.6 cm H / 22 in L x 13.5 in W x 13.6 in H
Weight	19 kg / 42 lb (without Peltier); 21 kg / 46.3 lb (with Peltier)
Operating Humidity	20 - 80% non-condensing
Operating Temperature	10 - 40 °C

PHYSICAL AND ENVIRONMENTAL				
Standard Configuration	Needle	Syringe	Buffer Tubing	Sample Loop
	15 µL	500 µL	1000 µL	100 µL
Wetted Parts	SS316, PTFE, TEFZEL, VESPEL, DLC, glass			
Syringe Volume	100, 250, 500 and 1000 μL			
Tray Types/Microtiter Plates Supported	 100-vial tray: 2-mL 85-vial tray: 80 2-m 80-vial dilution tray 205-vial tray: 200 0 25-vial tray: 25 6-m 2 x 96-well microti 2 x 96-well microti 2 x 384-well micro All trays compatible 	vials (standard) nL vials plus 5 6-mL vi y: 80 2-mL vials plus 6 0.2-mL micro vials plu nL vials ter plate, high (deep) ter plate, low (shallow titer plate with cooling, heating,	als 0-mL dilution tank s 5 2-mL vials) and missing vial/plat	e detection

LC 300 UHPLC Autosampler

KEY DESIGN COMPONENTS	
Technology	 System status display
	 Built-in oven with integrated preheater
	 Patented ILD[™] injection valve¹
	 Automated dilution and derivatization capabilities
	 Support for multiple sample vial and tray formats
Safety Features	Door interlock sensor

¹ U.S. Patent No. 8,322,197 B2, European Patent No. 2196801

OPERATING SPECIFICATIONS	
Maximum Operating Pressure	0 - 18,000 psi / 0 - 1240 bar
Injection Modes	Full-loop, partial loop-fill, µL pickup
Injection Volume	Programmable from 1 – 2,500 μ L in 1 μ L increments
Injection Precision	Full-loop injection \leq 0.3 % RSD; Partial loop-fill \leq 0.5 % RSD; µL pickup \leq 1.0 % RSD
Injection Cycle Time	< 20 seconds typical in partial loop mode
Carryover	≤ 0.005%
Sample Temperature Control	4 - 40 °C (with Peltier)
Integrated Column Oven	Temperature range: Ambient+5 to 60 °C; Accuracy: ±1 °C
	Maximum column length: 150 mm

POWER REQUIREMENTS	
Voltage Requirements	100 – 240 V
Line Frequency	50 – 60 Hz
Power Consumption	320 VA

PHYSICAL AND ENVIRONMENTAL	
Dimensions	56 cm L x 34.5 cm W x 34.6 cm H / 22 in L x 13.5 in W x 13.6 in H
Weight	19 kg / 42 lb (without Peltier); 21 kg / 46.3 lb (with Peltier)
Operating Humidity	20 - 80% non-condensing
Operating Temperature	10 - 40 °C

PHYSICAL AND ENVIRONMENTAL				
Standard Configuration	Needle	Syringe	Buffer Tubing	Sample Loop
	15 µL	250 µL	500 µL	20 µL
Wetted Parts	SS316, PTFE, TEFZEL, VESPEL, DLC, glass			
Syringe Volume	100, 250, 500 and 1000 μL			
Tray Types/Microtiter Plates Supported	 100-vial tray: 2-mL 85-vial tray: 80 2-m 80-vial dilution tray 205-vial tray: 200 0 25-vial tray: 25 6-m 2 x 96-well microti 2 x 96-well microti 2 x 384-well micro All trays compatible 	vials (standard) nL vials plus 5 6-mL vi y: 80 2-mL vials plus 6 0.2-mL micro vials plu nL vials ter plate, high (deep) ter plate, low (shallow titer plate with cooling, heating,	als 0-mL dilution tank s 5 2-mL vials) and missing vial/plat	e detection

LC 300 Column Oven

KEY DESIGN COMPONENTS	
Technology	 Integrated solvent preheater Optional column selection valve allows automated column switching of up to 6 columns Peltier heating/cooling Accommodates longer columns (up to 30 cm)
Safety Features	Temperature and vapor safety sensors with alarm and shutoff

OPERATING SPECIFICATIONS	
Temperature Range	5 – 90 °C, with 1 °C increments 5 – 75 °C, with 1 °C increments (if optional Column Selection Valve is installed)
Temperature Accuracy	Better than 0.1 °C
Temperature Stability	Better than 0.1 °C
Temperature Rate	Heat @ 10 °C/min from 40 to 60 °C Cool @ 2 °C/min from 60 to 40 °C

POWER REQUIREMENTS	
Voltage Requirements	100 – 240 V
Line Frequency	50 – 60 Hz
Power Consumption	454 VA

PHYSICAL AND ENVIRONMENTAL	
Dimensions	56 cm L x 16.8 cm W x 58.4 cm H / 22 in L x 6.6 in W x 23 in H
Weight	16 kg / 35 lb
Operating Humidity	20 - 80% non-condensing
Operating Temperature	10 - 40 °C

LC 300 Photodiode Array Detector

KEY DESIGN COMPONENTS	
Technology	 Patented fiber optic flow cell technology² Self-aligning Flow Cell and lamp Integrated solvent tray
Safety Features	Temperature sensorsLeak sensor

² US Patent Numbers US8797528, US8947654, and US9025142; Chinese Patent Number CN204945029; EU Patent Allowed EP13780024.9

OPERATING SPECIFICATIONS	
Wavelength Range	190 – 700 nm
Wavelength Accuracy	± 0.5 nm
Optical Resolution	4 nm
Photodiodes	1024
Digital Resolution	0.6 nm
Linearity Range	<3 % at 2 AU
Baseline Noise	<8 µAU
Drift	<0.5 mAU/hr
Sampling Rate	0.5 – 200 points/s (Hz)
Leak Detection	Heated thermistor sensor in glass envelope, located in flow cell drip tray

OPTICAL COMPONENTS	
Light Source	Deuterium Lamp
Flow Cell Design	Liquid core waveguide

POWER REQUIREMENTS	
Voltage Requirements	100 – 240 V
Line Frequency	50 – 60 Hz
Power Consumption	140 VA

PHYSICAL AND ENVIRONMENTAL	
Dimensions	56 cm L x 34.5 cm W x 24.1 cm H / 22 in L x 13.5 in W x 9.5 in H
Weight	19 kg / 42 lb
Operating Humidity	20 - 80% non-condensing
Operating Temperature	10 - 35 °C

FLOW CELLS	
Path Length	10 mm or (optional) 50 mm
Cell Volume	1 μL (with 10 mm flow cell) or 5 μL (with optional 50 mm flow cell)
Pressure Limit	1500 psi
Wetted Materials	Fused silica, PEEK, PTFE AF, Titanium

LC 300 Multi-Wavelength Detector

KEY DESIGN COMPONENTS	
Technology	 Patented fiber optic flow cell technology² Self-aligning Flow Cell and lamp Upgradeable to full-featured Photodiode Array detector
	 Integrated solvent tray
Safety Features	Temperature sensorsLeak sensor

² US Patent Numbers US8797528, US8947654, and US9025142; Chinese Patent Number CN204945029; EU Patent Allowed EP13780024.9

OPERATING SPECIFICATIONS	
Number of Channels	Up to 8
Wavelength Range	190 – 790 nm
Wavelength Accuracy	± 0.5 nm
Optical Resolution	4 nm
Photodiodes	1024
Digital Resolution	0.6 nm
Linearity Range	<3 % at 2 AU
Baseline Noise	<8 µAU
Drift	<0.5 mAU/hr
Sampling Rate	0.5 – 200 points/s (Hz)
Leak Detection	Heated thermistor sensor in glass envelope, located in flow cell drip tray

OPTICAL COMPONENTS	
Light Source	Deuterium Lamp
Flow Cell Design	Liquid core waveguide

POWER REQUIREMENTS	
Voltage Requirements	100 – 240 V
Line Frequency	50 – 60 Hz
Power Consumption	140 VA

PHYSICAL AND ENVIRONMENTAL	
Dimensions	56 cm L x 34.5 cm W x 24.1 cm H / 22 in L x 13.5 in W x 9.5 in H
Weight	19 kg / 42 lb
Operating Humidity	20 - 80% non-condensing
Operating Temperature	10 - 35 °C

FLOW CELLS	
Path Length	10 mm or (optional) 50 mm
Cell Volume	1 μL (with 10 mm flow cell) or 5 μL (with optional 50 mm flow cell)
Pressure Limit	1500 psi
Wetted Materials	Fused silica, PEEK, PTFE AF, Titanium

LC 300 UV/Vis Detector

KEY DESIGN COMPONENTS	
Technology	 Self-aligning Flow Cell and lamp
	 Integrated solvent tray
Safety Features	 Leak sensor

OPERATING SPECIFICATIONS	
Wavelength Range	190 – 700 nm
Wavelength Accuracy	± 1 nm
Wavelength Precision	±1nm
Slit Width	5 nm
Linearity Range	≥2.5 AU (with 5% deviation)
Sampling Rate	Up to 100 points/s (Hz)
Sensitivity Range	0.0005 to 3.000 AUFS in 0.0001 increments from 0.0005 to 0.1, and 0.01 increments above 0.1 AUFS
Noise	<7.5 x 10-6 AU, 210 - 280 nm, 2 sec response time, std test cell
Drift	<1 x 10-4 AU/hr, after warmup
Leak Detection	Heated thermistor sensor in glass envelope, located in flow cell drip tray

OPTICAL COMPONENTS	
Optics	Dual beam
Light Sources	Deuterium (190 - 360 nm) or Tungsten (360 - 700 nm), pre-focused, no adjustment required on replacement

POWER REQUIREMENTS	
Voltage Requirements	100 – 240 V
Line Frequency	50 – 60 Hz
Power Consumption	130 VA

PHYSICAL AND ENVIRONMENTAL	
Dimensions	56 cm L x 34.5 cm W x 24.1 cm H / 22 in L x 13.5 in W x 9.5 in H
Weight	19 kg / 42 lb
Operating Humidity	20 - 80% non-condensing
Operating Temperature	10 - 30 °C

FLOW CELLS	
Path Length	6 mm
Cell Volume	2.4 µL
Pressure Limit	750 psi / 34 bar
Wetted Materials	Black PVX, PEEK, quartz

LC 300 Fluorescence Detector

KEY DESIGN COMPONENTS	
Technology	 Axially irradiated flow cell
	 Integrated mercury lamp
Safety Features	 Temperature sensors
	Leak sensor
	 Lamp door safety interlock

OPERATING SPECIFICATIONS		
Settable Wavelength Range	200 to 900 nm (for EX and EM wavelengths)	
Measuring Wavelength Range	220 to 700 nm (for EX and EM wavelengths)	
Slit Width Emission	20 nm or 40 nm (selectable)	
Wavelength Accuracy	± 2 nm	
Wavelength Repeatability	± 0.2 nm	
Sensitivity (S/N)	1400:1 RMS Water Raman Baseline Method	

OPTICAL COMPONENTS	
Monochromator	Holographic concave diffraction gratings (EX and EM)
Light Source	150 W Xenon lamp
Detectors	Excitation: Photodiode
	Emission: Photomultiplier tube

POWER REQUIREMENTS	
Voltage Requirements	100 – 240 V
Line Frequency	50 – 60 Hz
Power Consumption	230 VA

PHYSICAL AND ENVIRONMENTAL	
Dimensions	56 cm L x 34.5 cm W x 29.5 cm H / 22 in L x 13.5 in W x 11.6 in H
Weight	31 kg / 69 lb
Operating Humidity	35 - 85% non-condensing
Operating Temperature	10 - 30 °C

FLOW CELLS	
Flow Cell Volume	12.7 μL standard 4 μL (optional flow cell available)
Maximum Pressure	580 psi / 40 bar
Wetted Materials	Synthetic quartz, fluoropolymer, and stainless steel (SUS316)

LC 300 Refractive Index Detector

KEY DESIGN COMPONENTS	
Technology	 Long-life LED light source Optical system mounted within a precisely temperature-controlled housing Programmable purge Programmable polarity switching
Safety Features	Temperature sensorsLeak sensor

OPERATING SPECIFICATIONS	
Refractive Index Range	1.00 to 1.75
Measurement Range	 High: 50 x 10⁻⁶ RIU/1V Standard: 500 x 10⁻⁶ RIU/1V Low: 5000 x 10⁻⁶ RIU/1V
Linearity	 High: 5 x 10⁻⁵ RIU Standard: 5 x 10⁻⁴ RIU Low: 5 x 10⁻³ RIU
Noise	≤0.20 x 10 ⁻⁸ RIU
Drift	≤200 µV/h (0.1 µRIU/h)
Temperature Setting Range	0 to 45 °C (1 °C increments) via PID control heater
Temperature Control Range	Ambient+10 °C to Ambient+25 °C

OPTICAL COMPONENTS							
Measurement System	Deflection type						
Light Source Type	Light Emitting Diode (LED)						

POWER REQUIREMENTS	
Voltage Requirements	100 – 240 V
Line Frequency	50 – 60 Hz
Power Consumption	80 VA

PHYSICAL AND ENVIRONMENTAL							
Dimensions	56 cm L x 34.5 cm W x 16.8 cm H / 22 in L x 13.5 in W x 6.6 in H						
Weight	30 kg / 66 lb						
Operating Humidity	35 - 85% non-condensing						
Operating Temperature	10 - 30 °C						

FLOW CELLS	
Cell Volume	10 μL
Pressure Limit	14 psi / 1 bar
Wetted Materials	Quartz glass, fluorine-containing resin, and SUS316

Consolidated Specifications

MODULE	HEIGHT	WIDTH	DEPTH	WEIGHT	POWER SPECIFICATIONS	POWER CONSUMPTION	BTU PER Hour	TEMPERATURE RANGE	HUMIDITY RANGE
LC 300 Waste Management	6 cm 2.4 in	34.5 cm 13.5 in	56 cm 22 in	5 kg 11 lb	100 to 240 V 50 or 60 Hz	1000 VA Total	4 Total Modules	20 °C - 60 °C	20 - 80% non- condensing
Module	Maximum stackable weight on top of module 82 kg / 180.8 lb								
LC 300 Analytical Pump	16.8 cm 6.6 in	34.5 cm 13.5 in	56 cm 22 in	20 kg 44 lb	100 to 240 V	120 VA	410 BTU	10-15 °C	20 - 80% non-condensing
LC 300 HPLC/UHPLC Pump	16.8 cm 6.6 in	34.5 cm 13.5 in	56 cm 22 in	21 kg 46 lb	100 - 230 V 50 - 60 Hz	450 VA	1535 BTU	10 °C- 40 °C	20 - 80% non- condensing
LC 300 HPLC/UHPLC Autosampler	34.6 cm 13.6 in	34.5 cm 13.5 in	56 cm 22 in	21 kg 46 lb	100 - 240 V 50 - 60 Hz	320 VA	1092 BTU	10 °C- 30 °C	20 - 80% non- condensing
LC 300 Column Oven	58.4 cm 23 in	16.8 cm 6.6 in	56 cm 22 in	16 kg 35 lb	100 - 240 V 50 - 60 Hz	454 VA	1549 BTU	10 °C- 40 °C	20 - 80% non- condensing
LC 300 PDA/MWD Detector	24.1 cm 9.5 in	34.5 cm 13.5 in	56 cm 22 in	19 kg 42 lb	100 - 240 V 50 - 60 Hz	140 VA	478 BTU	10 °C- 35 °C	20 - 80% non- condensing
LC 300 UV/Vis Detector	24.1 cm 9.5 in	34.5 cm 13.5 in	56 cm 22 in	19 kg 42 lb	100 - 240 V 50 - 60 Hz	130 VA	444 BTU	10 °C- 30 °C	20 - 80% non- condensing
LC 300 Fluorescence Detector	29.5 cm 11.6 in	34.5 cm 13.5 in	56 cm 22 in	31 kg 69 lb	100 - 240 V 50 - 60 Hz	230 VA	785 BTU	10 °C- 30 °C	35 - 85% non- condensing
LC 300 Refractive Index Detector	16.8 cm 6.6 in	34.5 cm 13.5 in	56 cm 22 in	30 kg 66 lb	100 - 240 V 50 - 60 Hz	80 VA	273 BTU	10 °C- 30 °C	35 - 85% non- condensing
LC 300 Stand Alone Solvent Organizer	25.4 cm/ 10 in to top of 1 L bottle	34.5 cm 13.5 in	56 cm 22 in	5 kg 11 lb	N/A	N/A	N/A	N/A	N/A

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